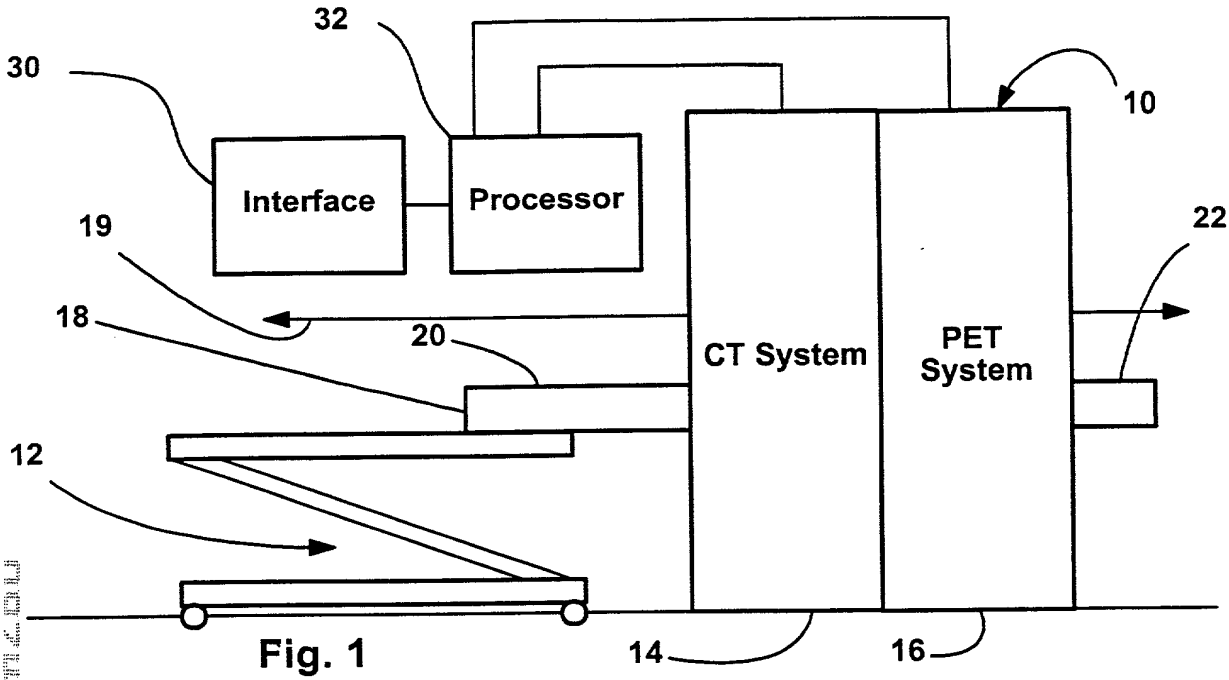

32
30
10
Interface
Processor
19
22
18
20
CT System
PET System
12
14
16

Fig. 1

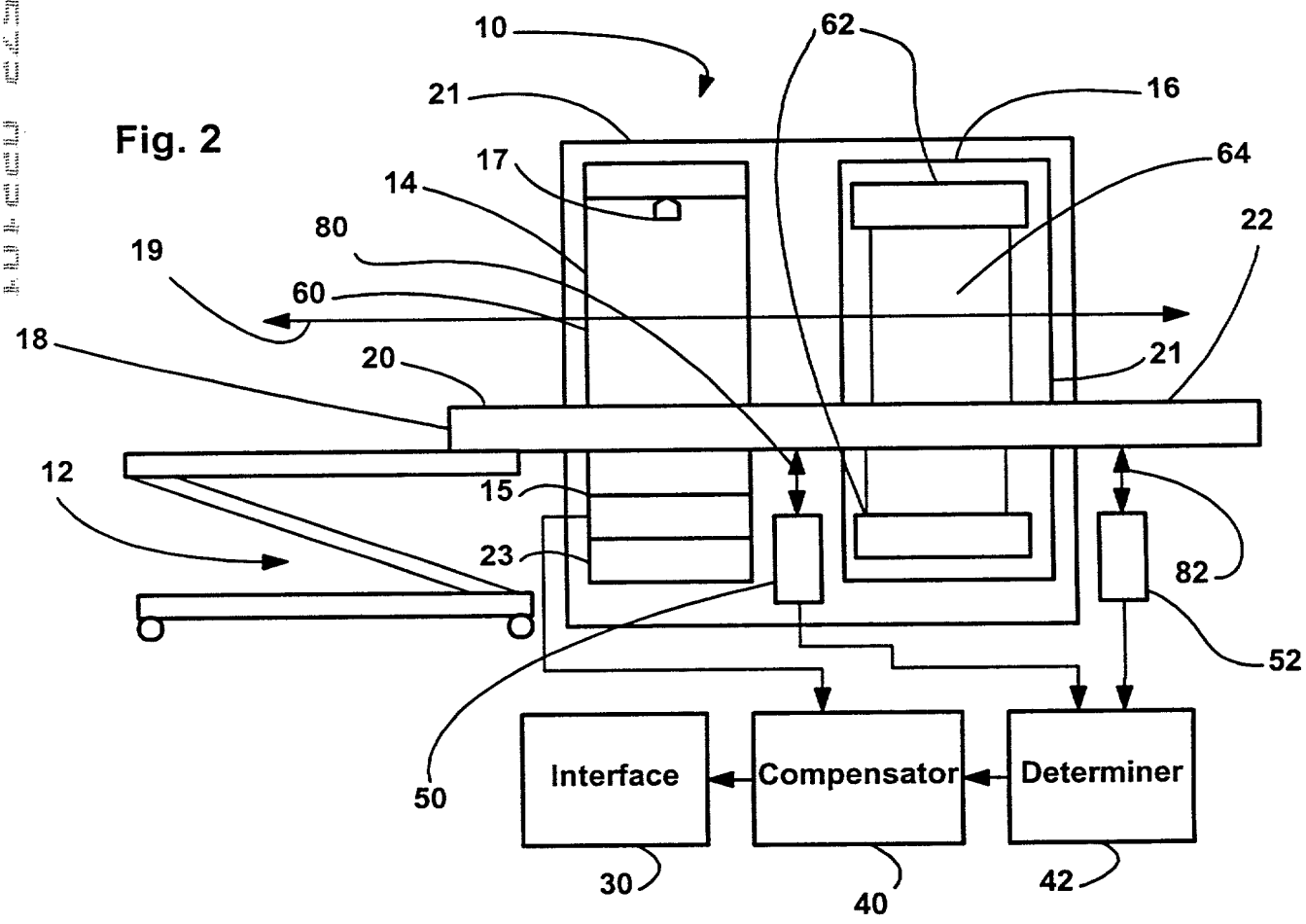
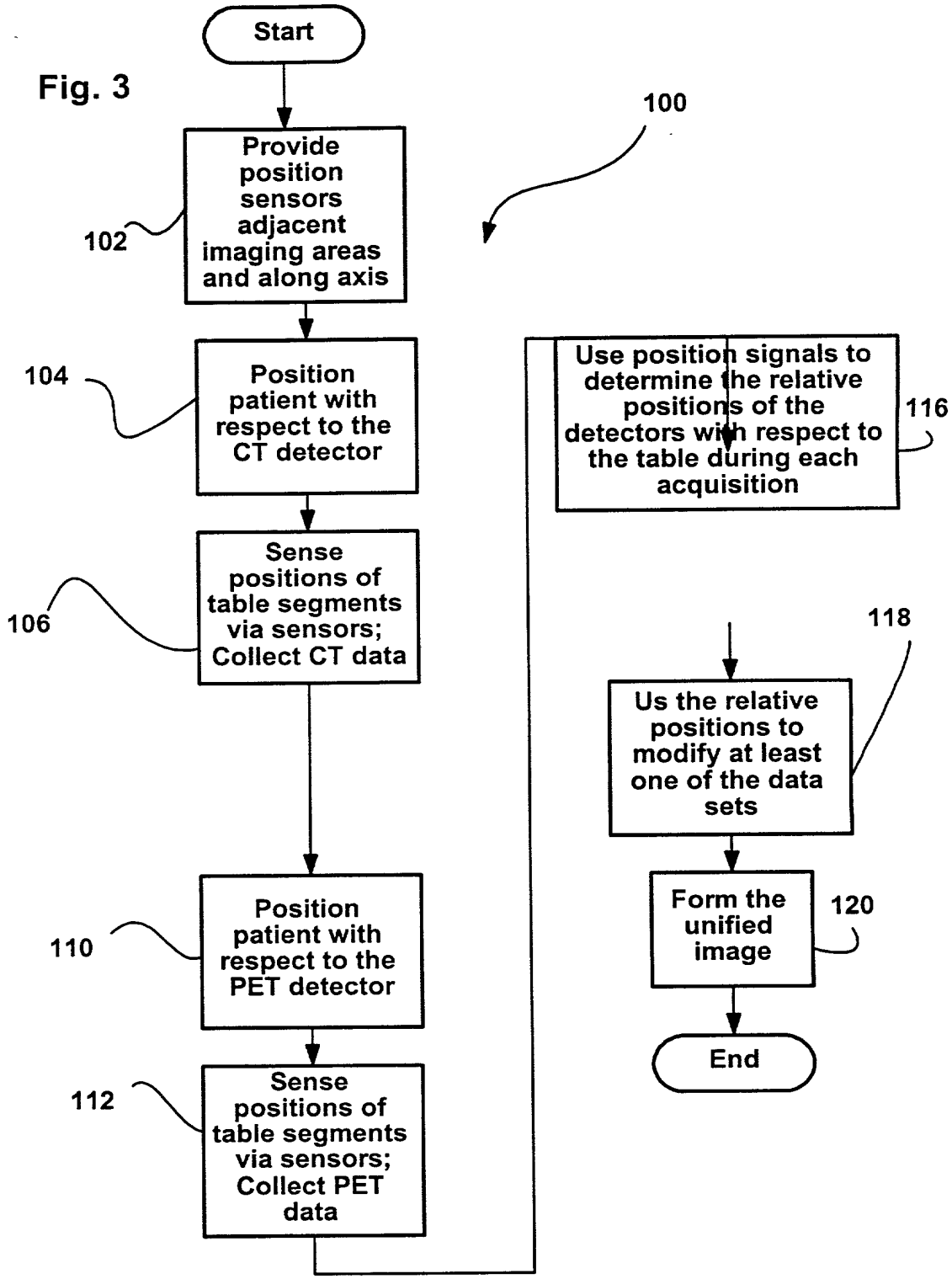

10
62
21
16
17
64
14
80
22
19
60
18
20
21
12
15
23
82
52
50
Interface
Compensator
Determiner
30
40
42

Fig. 2

Fig. 3


Start
100
Provide position sensors adjacent imaging areas and along axis
102
Position patient with respect to the CT detector
104
Sense positions of table segments via sensors; Collect CT data
106
Position patient with respect to the PET detector
110
Sense positions of table segments via sensors; Collect PET data
112
Use position signals to determine the relative positions of the detectors with respect to the table during each acquisition
116
Us the relative positions to modify at least one of the data sets
118
Form the unified image
120
End